

# Executive Summary Report

## SMOG CHECK Statewide

Fourth Quarter 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	2,445,448	287,077	11.74%
Total	2,795,777	366,379	13.10%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	2,124,492	86.88%	320,956	13.12%
Total	2,384,704	85.30%	411,073	14.70%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	1,356,093	86.53%	211,088	13.47%
Total	1,538,745	85.39%	263,358	14.61%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	31,089	1.27%
All Emissions	139,082	5.69%
All Visual	34,993	1.43%
All Functional	181,402	7.42%
OBDII	125,514	5.13%
Overall	287,077	11.74%

### 5. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	874,045	792,212
Directed Vehicles	693,136	563,881
Total	1,567,181	1,356,093

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	145,293	125,671
Directed Vehicles	58,388	44,128
Total	203,681	169,799

### 7. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,570	287	645	33	0	4,535
Test Only	2,667	47	27	1	0	2,742
Basic Area Dealer	0	0	2	0	0	2
Gold Shield	490	27	48	74	0	639
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	4	0	0	35
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	1	0	0	0	0	1
Total	7,045	371	769	111	0	8,296

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	1,947,916	236,058	12.12%	24,918	1.28%
Partially Enhanced	123,894	16,856	13.61%	1,754	1.42%
Basic	222,402	20,798	9.35%	2,657	1.19%
Change of Ownership	16,081	2,030	12.62%	412	2.56%
No Program	16	2	12.50%	0	0.00%
Unknown Program	135,139	11,333	8.39%	1,348	1.00%
Total Program Area	2,445,448	287,077	11.74%	31,089	1.27%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	1,567,181	204,522	13.05%	22,613	1.44%
Regular	655,216	50,423	7.70%	4,828	0.74%
Basic Area Dealer	11,594	406	3.50%	26	0.22%
Gold Shield in Enhanced Area	153,412	24,471	15.95%	2,594	1.69%
Gold Shield in Basic Area	28,768	3,598	12.51%	483	1.68%
Gold Shield in COO Area	21,501	2,543	11.83%	400	1.86%
Business Fleet	28	3	10.71%	0	0.00%
Permanent Fleet Registered	165	6	3.64%	0	0.00%
Referee	1,255	610	48.61%	93	7.41%
Government Fleet	6,328	495	7.82%	52	0.82%
Total	2,445,448	287,077	11.74%	31,089	1.27%

**10. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1960	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1964	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1969	1	1	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
MY-1976	2,279	615	26.99%	19.31%	8.60%	13.69%	7.46%	0.00%
MY-1977	3,171	908	28.63%	19.36%	7.51%	15.11%	7.60%	0.00%
MY-1978	3,672	966	26.31%	18.63%	7.73%	14.52%	7.71%	0.00%
MY-1979	4,380	1,285	29.34%	21.12%	8.56%	15.16%	7.21%	0.00%
MY-1980	2,601	697	26.80%	18.45%	8.61%	14.03%	8.57%	0.00%
MY-1981	2,847	830	29.15%	22.69%	8.85%	13.59%	7.10%	0.00%
MY-1982	3,473	1,024	29.48%	23.24%	9.13%	13.85%	7.77%	0.00%
MY-1983	4,051	1,275	31.47%	24.51%	8.94%	14.69%	7.92%	0.00%
MY-1984	8,027	2,541	31.66%	25.76%	10.07%	14.23%	7.21%	0.00%
MY-1985	10,548	3,379	32.03%	26.22%	9.32%	14.46%	6.28%	0.00%
MY-1986	15,294	4,331	28.32%	22.49%	7.87%	13.14%	5.75%	0.00%
MY-1987	18,828	5,597	29.73%	23.82%	7.66%	12.92%	5.45%	0.00%
MY-1988	21,146	5,995	28.35%	22.60%	6.83%	12.78%	4.86%	0.00%
MY-1989	30,096	8,106	26.93%	20.87%	5.97%	12.39%	4.38%	0.00%
MY-1990	36,182	9,514	26.29%	20.65%	5.45%	11.46%	3.88%	0.00%
MY-1991	46,199	11,786	25.51%	20.20%	5.14%	10.84%	3.32%	0.00%
MY-1992	44,508	11,040	24.80%	19.49%	4.82%	10.06%	3.26%	0.00%
MY-1993	58,472	15,324	26.21%	21.09%	4.25%	10.23%	3.25%	0.00%
MY-1994	68,812	16,567	24.08%	18.64%	3.28%	9.31%	3.08%	0.00%
MY-1995	97,980	20,843	21.27%	16.31%	2.67%	7.96%	2.81%	0.00%
MY-1996	75,421	14,406	19.10%	9.47%	1.43%	11.94%	2.15%	10.84%
MY-1997	126,555	20,057	15.85%	6.93%	1.06%	10.48%	1.61%	9.66%
MY-1998	111,535	15,493	13.89%	5.49%	0.96%	9.65%	1.53%	9.03%
MY-1999	171,421	17,935	10.46%	3.24%	0.54%	7.84%	1.20%	7.41%
MY-2000	146,830	14,474	9.86%	2.60%	0.53%	7.76%	1.05%	7.51%
MY-2001	251,967	27,269	10.82%	1.50%	0.30%	9.66%	0.85%	9.52%
MY-2002	140,239	11,559	8.24%	1.35%	0.24%	7.20%	0.76%	7.10%
MY-2003	279,573	19,305	6.91%	0.87%	0.19%	6.13%	0.63%	6.05%
MY-2004	130,531	6,315	4.84%	0.72%	0.11%	4.21%	0.49%	4.14%
MY-2005	296,294	12,392	4.18%	0.43%	0.09%	3.68%	0.39%	3.63%
MY-2006	108,476	2,954	2.72%	0.56%	0.06%	2.23%	0.35%	2.19%
MY-2007	47,569	1,139	2.39%	0.55%	0.05%	2.05%	0.20%	2.02%
MY-2008	30,626	571	1.86%	0.84%	0.04%	1.58%	0.18%	1.54%
MY-2009	11,947	177	1.48%	0.69%	0.03%	1.31%	0.12%	1.26%
MY-2010	19,297	216	1.12%	0.20%	0.01%	1.02%	0.05%	0.96%
MY-2011	12,779	159	1.24%	0.27%	0.01%	1.03%	0.11%	0.97%
MY-2012	1,817	32	1.76%	0.11%	0.00%	1.76%	0.00%	1.76%
MY-2013	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	2,445,448	287,077	11.74%	5.69%	1.27%	7.42%	1.43%	5.13%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	1,101
Certificate of Non Compliance	1
Parts Cost	514
Hardship Extensions	2
Exempt Vehicle	109
Exempted by Directive	15
Parts Exemption	17
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,759</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	955
Stations Locked-Out at Least Once	1,432
Stations Conducted at Least One Test	7,341

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,651	5,875
EA	Gas Endorsement	9	0
EB	Both Endorsement	45	0
EB	Gas Endorsement	475	0
EU	Both Endorsement	1	0
GU	Both Endorsement	20	0

**14. Inspection Costs**

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	1,319,550	47.38	210,270	48.30	1,529,820	47.51
Test and Repair	395,899	47.66	234,139	46.95	630,038	47.39
Test and Repair Dealer	87	61.16	10,590	52.09	10,677	52.16
Referee	502	30.00	196	30.00	698	30.00
Gold Shield in Enhanced Area	126,780	46.41	22,884	47.78	149,664	46.62
Gold Shield in Basic Area	1,254	62.00	26,539	40.22	27,793	41.20
Gold Shield in COO Area	5,864	52.41	14,826	49.87	20,690	50.59

**15. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$1-50	11,722	23.03	<b>44,750</b>	<b>274.87</b>
	\$51-150	9,026	100.24		
	\$151-250	6,943	200.77		
	\$251-450	8,903	340.68		
	Over \$450	8,156	821.31		
CAP Repairs	\$1-50	193	23.76	<b>6,981</b>	<b>430.67</b>
	\$51-150	383	108.63		
	\$151-250	492	207.32		
	\$251-450	2,091	360.92		
	Over \$450	3,822	550.41		
Total Repairs	\$1-50	9,256	23.37	<b>46,690</b>	<b>327.84</b>
	\$51-150	8,485	100.93		
	\$151-250	6,838	201.43		
	\$251-450	10,257	344.20		
	Over \$450	11,854	786.76		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	6,569	430.67

**17. Drill-Through**

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	29	8	1	0	1	5	5	0
Acceleration Simulation Mode (ASM)	Basic	Referee	1	2	1	1	0	1	1	2

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	197	27	2	1	8	15	11	3
Acceleration Simulation Mode (ASM)	Basic	Test Only	234	50	4	1	22	23	31	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	1	2	0	1	0	2	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	1	3	2	1	1	2	3	3
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	23	4	1	0	2	1	3	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	32	5	1	0	1	4	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	860	169	16	11	55	91	90	22
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	4,368	863	81	48	352	435	513	112
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	91,153	19,227	1,984	1,137	8,375	9,278	12,261	2,702
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	222	10	3	114	83	144	9
Acceleration Simulation Mode (ASM)	Enhanced	Referee	267	370	52	120	107	179	209	169
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	272,271	21,138	1,693	1,190	12,025	7,662	15,091	2,288
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	1,067,340	175,861	19,386	9,446	68,842	94,227	104,291	20,303
Acceleration Simulation Mode (ASM)	No Program	Test Only	4	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	179	38	1	1	19	24	21	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	268	50	5	0	17	30	27	7
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	7,787	1,948	231	121	827	951	1,279	246
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	8	0	0	5	3	6	0
Acceleration Simulation Mode (ASM)	Partial	Referee	17	22	2	8	7	8	11	13
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	47,742	7,887	768	408	3,034	4,070	4,702	897

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	42	4	1	0	1	3	1	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	31,613	5,634	638	332	2,167	2,993	3,320	704
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	167	28	2	2	15	9	20	4
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	4,039	732	76	61	349	326	481	129
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	148	17	0	38	96	58	3
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	45	33	9	14	6	17	19	21
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	35,374	2,705	247	195	1,434	1,135	1,827	358
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	40,621	5,096	685	376	2,320	2,633	3,176	727
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	20,121	2,914	420	183	1,250	888	2,021	530
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	919	129	18	8	59	48	82	13
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,527	621	86	44	303	182	471	107
Two Speed Idle (TSI)	Basic	Government Fleet	0	32	9	0	17	11	21	0
Two Speed Idle (TSI)	Basic	Referee	34	76	16	29	24	29	54	40
Two Speed Idle (TSI)	Basic	Test and Repair	127,552	12,552	1,574	704	6,007	3,594	9,298	1,691
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	7,797	312	22	10	174	63	251	26
Two Speed Idle (TSI)	Basic	Test Only	27,680	3,620	504	224	1,741	1,148	2,589	537
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	202	49	8	1	14	20	36	9
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	5,172	826	192	54	274	378	521	112
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	267	51	16	4	13	26	35	9
Two Speed Idle (TSI)	Change of Ownership	Referee	3	12	4	5	0	5	7	8
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	4,732	550	89	47	242	198	416	97
Two Speed Idle (TSI)	Change of Ownership	Test Only	2,886	499	99	39	186	193	339	83
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	1,424	178	18	18	77	47	128	31
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	3,067	269	37	6	147	85	199	19
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	14,409	1,460	171	79	949	322	1,159	185
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	49	11	0	27	18	33	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Enhanced	Referee	62	39	5	17	19	7	27	24
Two Speed Idle (TSI)	Enhanced	Test and Repair	57,558	3,038	274	146	2,142	546	2,484	283
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	843	30	1	1	24	2	26	3
Two Speed Idle (TSI)	Enhanced	Test Only	150,371	11,627	1,179	550	7,890	2,478	9,192	1,165
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	141	13	0	1	10	1	11	2
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	187	15	2	1	6	6	11	3
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	971	120	18	9	79	34	96	13
Two Speed Idle (TSI)	Partial	Referee	1	4	0	3	1	1	2	3
Two Speed Idle (TSI)	Partial	Test and Repair	6,813	505	53	39	294	126	375	66
Two Speed Idle (TSI)	Partial	Test Only	3,887	351	35	24	236	68	272	49
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	1,061	154	20	24	70	40	112	43
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	3,637	320	63	31	139	131	224	52
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	1,079	86	11	4	59	20	72	3
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	20	5	0	13	5	15	0
Two Speed Idle (TSI)	Unknown Program	Referee	22	9	2	5	1	4	6	8
Two Speed Idle (TSI)	Unknown Program	Test and Repair	15,432	1,120	127	75	678	266	910	158
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	1,118	30	2	1	22	4	28	2
Two Speed Idle (TSI)	Unknown Program	Test Only	11,007	709	82	39	480	161	571	76
Unknown TestType	Basic	Gold Shield in Basic Area	733	69	0	9	51	79	51	22
Unknown TestType	Basic	Gold Shield in COO Area	58	3	0	0	3	3	3	0
Unknown TestType	Basic	Gold Shield in Enhanced Area	204	10	0	1	7	11	7	4
Unknown TestType	Basic	Government Fleet	0	0	0	0	0	16	0	0
Unknown TestType	Basic	Referee	9	5	0	3	2	4	2	3
Unknown TestType	Basic	Test and Repair	5,915	302	0	43	218	443	218	94
Unknown TestType	Basic	Test and Repair Dealer	725	15	0	4	8	33	8	7
Unknown TestType	Basic	Test Only	1,096	51	0	6	41	60	41	12
Unknown TestType	Change of Ownership	Gold Shield in Basic Area	10	1	0	0	1	1	1	0
Unknown TestType	Change of Ownership	Gold Shield in COO Area	221	16	0	1	12	16	12	4
Unknown TestType	Change of Ownership	Referee	2	3	0	3	0	3	0	3

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
UnKnown TestType	Change of Ownership	Test and Repair	189	6	0	1	5	6	5	1
UnKnown TestType	Change of Ownership	Test Only	84	3	0	0	2	4	2	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	72	6	0	0	4	7	4	2
UnKnown TestType	Enhanced	Gold Shield in COO Area	226	14	0	6	6	26	6	9
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	2,335	159	0	24	123	240	123	52
UnKnown TestType	Enhanced	Government Fleet	0	12	0	0	11	210	11	1
UnKnown TestType	Enhanced	Referee	49	17	0	12	5	18	5	13
UnKnown TestType	Enhanced	Test and Repair	9,077	400	0	79	285	616	285	133
UnKnown TestType	Enhanced	Test and Repair Dealer	65	2	0	2	0	4	0	2
UnKnown TestType	Enhanced	Test Only	16,662	899	0	150	649	1,041	649	290
UnKnown TestType	Partial	Gold Shield in Basic Area	22	3	0	1	2	3	2	2
UnKnown TestType	Partial	Gold Shield in COO Area	22	2	0	0	2	2	2	1
UnKnown TestType	Partial	Gold Shield in Enhanced Area	414	34	0	9	24	38	24	13
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	8	0	0
UnKnown TestType	Partial	Referee	8	3	0	3	0	3	0	3
UnKnown TestType	Partial	Test and Repair	2,758	135	0	26	91	185	91	50
UnKnown TestType	Partial	Test and Repair Dealer	29	0	0	0	0	1	0	0
UnKnown TestType	Partial	Test Only	1,296	69	0	19	46	77	46	28
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	41	4	0	0	2	7	2	3
UnKnown TestType	Unknown Program	Gold Shield in COO Area	208	8	0	0	8	24	8	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	171	13	0	2	7	32	7	7
UnKnown TestType	Unknown Program	Government Fleet	0	1	0	0	1	75	1	0
UnKnown TestType	Unknown Program	Referee	67	12	0	6	1	12	1	11
UnKnown TestType	Unknown Program	Test and Repair	1,316	54	0	11	38	164	38	18
UnKnown TestType	Unknown Program	Test and Repair Dealer	43	5	0	2	3	7	3	2
UnKnown TestType	Unknown Program	Test Only	1,279	46	0	13	26	141	26	24